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**1 Using camp-on to improve the performance of a Fibre Channel switch**
*Varma, A.; Murthy, S.; Bryant, R.;*

Local Computer Networks, 1993., Proceedings., 18th Conference on , 19-22 Sep 1993

Pages:247 - 255

[\[Abstract\]](#)   [\[PDF Full-Text \(848 KB\)\]](#)   IEEE CNF

**2 Performance evaluation of a high-speed switching system based on fibre channel standard**
*Varma, A.; Sahai, V.; Bryant, R.;*

High Performance Distributed Computing, 1993., Proceedings the 2nd International Symposium on , 20-23 July 1993

Pages:144 - 151

[\[Abstract\]](#)   [\[PDF Full-Text \(756 KB\)\]](#)   IEEE CNF

**3 Designing fibre channel fabrics**
*Cherkasova, L.; Kotov, V.; Rokicki, T.;*

Computer Design: VLSI in Computers and Processors, 1995. ICCD '95. Proceedings., 1995 IEEE International Conference on , 2-4 Oct. 1995

Pages:346 - 351

[\[Abstract\]](#)   [\[PDF Full-Text \(584 KB\)\]](#)   IEEE CNF

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## 1 A novel algorithm for fiber-optic alignment automation

Rong Zhang; Shi, F.G.;

Advanced Packaging, IEEE Transactions on [see also Components, Packaging Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on] , Volume: 27 , Issue: 1 , Feb. 2004

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## 2 On the bit-error rate of product accumulate codes in optical fiber communications

Jing Li; Yi Cai; Narayanan, K.R.; Lucero, A.; Pilipetskii, A.; Georgiades, C.N. Lightwave Technology, Journal of , Volume: 22 , Issue: 2 , Feb. 2004

Pages:640 - 646

[\[Abstract\]](#)[\[PDF Full-Text \(296 KB\)\]](#)

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## 3 Development of system specification for laser-optimized 50-/spl m multimode fiber for multigigabit short-wavelength LANs

Pepeljugoski, P.; Hackert, M.J.; Abbott, J.S.; Swanson, S.E.; Golowich, S.E.; Ritger, A.J.; Kolesar, P.; Chen, Y.C.; Pleunis, P.;

Lightwave Technology, Journal of , Volume: 21 , Issue: 5 , May 2003

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## 4 High-gain SiGe transimpedance amplifier array for a 12/spl times/1 Gb/s parallel optical-fiber link

Schild, A.; Rein, H.-M.; Mullrich, J.; Altenhain, L.; Blank, J.; Schrodinger, K.; Solid-State Circuits, IEEE Journal of , Volume: 38 , Issue: 1 , Jan. 2003

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**5 Application-specific economic analysis of integral passives in printed circuit boards**

*Sandborn, P.A.; Etienne, B.; Subramanian, G.;*

Electronics Packaging Manufacturing, IEEE Transactions on [see also Compon Packaging and Manufacturing Technology, Part C: Manufacturing, IEEE Transactions], Volume: 24 , Issue: 3 , July 2001

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**6 High speed storage area networks using a fibre channel arbitrated interconnect**

*Heath, J.R.; Yakutis, P.J.;*

Network, IEEE , Volume: 14 , Issue: 2 , March-April 2000

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**7 An adaptive first-order polarization-mode dispersion compensation system aided by polarization scrambling: theory and demonstration**

*Hok Yong Pua; Peddanarappagari, K.; Benyuan Zhu; Allen, C.; Demarest, K.; Rongqing Hui;*

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*Swenson, N.L.; Cioffi, J.M.;*

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**9 Evaluation of a data communication model for switched fibre channels**

*Emerson, S.;*

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**10 Transfer matrix analysis for angle-modulated WDM systems with and without dispersion compensation**

*Pal, B.; Gangopadhyay, R.;*

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**11 Simulation and analysis of FC network**

*Chao-Yang Wang; Feng Zhou; Yao-Long Zhu; Chong Tow Chong; Bo Hou; Wei Xi;*

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**12 Simulation of fibre channel storage area network using SANSim**

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**13 Modelling a 1.25 Gb/s optical transmitter in IEEE 1076.1 standard VHDL-AMS**

*Youssef, A.; Elmasry, M.;*

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**14 Paradigm shift for jitter and noise in design and test > Gb/s communication systems (an invited paper for ICCD 2003)**

*Li, M.; Wilstrup, J.;*

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**15 Modeling of standards-based commercial off the shelf (SCOTS) products for use in DoD environments**

*De Selms, T.;*

MILCOM 2000. 21st Century Military Communications Conference Proceedings , Volume: 2 , 22-25 Oct. 2000

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... Figure 5. **Fibre Channel port**. ... Once you set the baud rate in the terminal **emulation**  
program, wait until the PowerVault 35F completes the Power On Self Test (POST ...  
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# 1 [Technology to enable learning: Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories](#)

Kimfong Lei, Phillip T. Rawles

 October 2003 **Proceeding of the 4th conference on Information technology curriculum**

 Full text available: pdf(407.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine technology, storage technology, and host operating system. Performance tests were developed and executed to profile the performance of the technologies. The results of this work provide an evaluation of the studied technologies and a selection gui ...

**Keywords:** VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

## 2 [RSTA-MEP and the Linux crewstation](#)

George Koharchik, Quintelle Griggs, Sonja Gross, Kathy Jones, John Mellby, Joe Osborne

 October 2003 **Linux Journal**, Volume 2003 Issue 114

 Full-text available: html(26.57-KB) Additional Information: [full citation](#), [abstract](#)

Linux is bringing sensor data and user interface together for an innovative new military vehicle.

## 3 [Conflict-free channel assignment for an optical cluster-based shuffle network configuration](#)

Khaled A. Aly

 October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4

 Full text available: pdf(938.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A passive optical realization of large expandable shuffle networks is considered, where the general (p, k) shuffle function interconnects star-coupled clusters of time and/or wavelength multiplexed nodes. This configuration enables network partitioning into independent

subnetworks that can emulate various indirect cube topologies on a virtual point-to-point basis. Node transmitters are assigned fixed channels and reconfiguring the partition and/or the individual sub-network ...

4 GraphicsNet '95: integrated voice, video, graphics and data network using asynchronous transfer made (ATM)

Marke Clinger

February 1996 **ACM SIGGRAPH Computer Graphics**, Volume 30 Issue 1

Full text available:  pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Every year demonstrations at the SIGGRAPH conference push the envelope in state-of-the-art graphics. In 1995, SIGGRAPH also pushed the envelope in networking by deploying a conference-wide, production ATM network. GraphicsNet, the conference network, consisted of 400 Ethernet-over-ATM connections and 100 directly attached ATM devices. GraphicsNet was one of the largest ATM backbone networks deployed to date. Using the latest hardware and software available, GraphicsNet provided a switched intern ...

5 Analysis of the parallel packet switch architecture

Sundar Iyer, Nick W. McKeown

April 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2

Full text available:  pdf(619.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Our work is motivated by the desire to design packet switches with large aggregate capacity and fast line rates. In this paper, we consider building a packet switch from multiple lower speed packet switches operating independently and in parallel. In particular, we consider a (perhaps obvious) parallel packet switch (PPS) architecture in which arriving traffic is demultiplexed over  $k$  identical lower speed packet switches, switched to the correct output port, then recombined (multiplexed) b ...

**Keywords:** Clos network, inverse multiplexing, load balancing, output queueing, packet switch

6 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available:  pdf(418.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A & l ...

7 ARCMA---adaptive request channel multiple access protocol for wireless ATM networks

Anna Hać, Boon Ling Chew

November 2001 **International Journal of Network Management**, Volume 11 Issue 6

Full text available:  pdf(669.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We propose a new multiple access protocol based on demand assignment. This protocol is designed to reduce contention in the request phase while minimizing transmission delay under various network (ATM) environments. Our protocol uses an adaptive scheme that changes under heavy traffic conditions, and also provides priority to certain delay-sensitive

traffic.

### 8 Migration Issues and Strategies for Token Ring

Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love

July 1997 **International Journal of Network Management**, Volume 7 Issue 4

Full text available:  pdf(472.60 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard.  
© 1997 John Wiley & Sons, Ltd.

### 9 A parallel embedded-processor architecture for ATM reassembly

Richard F. Hobson, P. S. Wong

February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1


Full text available:  pdf(331.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ATM, embedded systems, medium access control, segmentation and reassembly

### 10 Spinach: a liberty-based simulator for programmable network interface architectures

Paul Willmann, Michael Brogioli, Vijay S. Pai

June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools**, Volume 39 Issue 7

Full text available:  pdf(336.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Spinach, a new simulator toolset specifically designed to target programmable network interface architectures. Spinach models both system components that are common to all programmable environments (e.g., ALUs, control and data paths, registers, instruction processing) and components that are specific to the embedded systems and network interface environments (e.g., software-controlled scratchpad memory, hardware assists for DMA and medium access control). Spinach is built on ...

**Keywords:** embedded systems, programmable network interfaces, simulation

### 11 U-Net: a user-level network interface for parallel and distributed computing (includes URL)

T. von Eicken, A. Basu, V. Buch, W. Vogels

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5

Full text available:  pdf(1.84 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 12 Routing: Simplified layering and flexible bandwidth with TWIN

Indra Widjaja, Iraj Saniee

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Full text available:  pdf(151.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a novel network architecture with simplified layering, called Time-



domain Wavelength Interleaved Networking (TWIN), that scales end-to-end bandwidth granularity exibly up to the wavelength capacity. In TWIN, all packet and complex processing functions are pushed to the network edge such that the network core only has to deal with an optical forwarding layer. Furthermore, by avoiding fast optical switching and optical buffering in the core through scheduling fast-tunable lase ...

**Keywords:** bandwidth granularity, network, network scheduling, simplified layering, switch

### 13 Off-line permutation embedding and scheduling in multiplexed optical networks with regular topologies

Chunming Qiao, Yousong Mei

April 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 2

Full text available:  pdf(212.73 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** WDM meshes, WDM rings, rearrangeable nonblocking, wavelength conversion, wavelength routing, wavelength-division multiplexing

### 14 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

**Keywords:** distributed operating systems, distributed systems, load distribution, process migration

### 15 A brief overview of ATM: protocol layers, LAN emulation, and traffic management

Kai-Yeung Siu, Raj Jain

April 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 2

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Asynchronous Transfer Mode (ATM) has emerged as the most promising technology in supporting future broadband multimedia communication services. To accelerate the deployment of ATM technology, the ATM Forum, which is a consortium of service providers and equipment vendors in the communication industries, has been created to develop implementation and specification agreements. In this article, we present a brief overview on ATM protocol layers and current progress on LAN Emulation and Traffic ...

### 16 An Ethernet compatible low cost/high performance communication solution

I. Chlamtac, A. Herman

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5


Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The LAN-HUB is a new local area network designed to combine the properties of several existing LAN standards to provide highly reliable communication at a relatively lower cost per station, improve network capacity/delay performance and increase the LAN user's flexibility in configuring his network. The LAN-HUB network is configured around the CODEX 4320 LAN-HUB communication controllers which allow up to eight Ethernet/IEEE 802.3 stations to transparently share one network transceiver or R ...

#### 17 TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available:  pdf(1.58 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



#### 18 Papers: On the effective evaluation of TCP

Mark Allman, Aaron Falk

October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Understanding the performance of the Internet's Transmission Control Protocol (TCP) is important because it is the dominant protocol used in the Internet today. Various testing methods exist to evaluate TCP performance, however all have pitfalls that need to be understood prior to obtaining useful results. Simulating TCP is difficult because of the wide range of variables, environments, and implementations available. Testing TCP modifications in the global Internet may not be the answer either: ...



#### 19 TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

October 1997 **Wireless Networks**, Volume 3 Issue 5

Full text available:  pdf(375.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The space communication environment and mobile and wireless communication environments show many similarities when observed from the perspective of a transport protocol. Both types of environments exhibit loss caused by data corruption and link outage, in addition to congestion-related loss. The constraints imposed by the two environments are also similar—power, weight, and physical volume of equipment are scarce resources. Finally, it is not uncommon for communication channel data rate ...



#### 20 A new transport protocol for broadcasting/multicasting MPEG-2 video over wireless

ATM access networks

Hairuo Ma, Magda El Zarki

July 2002 **Wireless Networks**, Volume 8 Issue 4

Full text available:  pdf(201.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Because of the telecommunications de-regulation act and progress in wireless technologies, we will see the co-existence of heterogeneous broadband access infrastructures in the broadband video service industry in the near future. In this paper, we addressed the error control issue when transmitting MPEG-2 video streams over wireless access networks for broadband video broadcast or multicast services. An end-to-end transport protocol based on ATM and wireless ATM technologies is proposed. For vid ...

**Keywords:** FEC, MPEG-2 broadcast/multicast, WATM, header redundancy, real-time, video quality



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